

## ABSTRACT

A variable volume metering chamber and valve assembly for a combustion-powered tool includes a housing defining a metering chamber having an internal volume and including an inlet and an outlet, and a plunger configured for reciprocal movement relative to the chamber for adjusting the internal volume of the metering chamber. The plunger is preferably adjustable by the user to alter the volume of fuel retained in the metering chamber. In the housing, a first valve controls control fluid flow through the inlet, a second valve controls fluid flow through the outlet, and an actuator assembly, connected to the valves, is sequentially operable from a first position, in which the first valve is open and the second valve is closed, to a second position, in which the first and second valves are both closed, and a third position, in which the first valve is closed and the second valve is open.